

Fig. 1

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A: µCP - micro Contact Printing

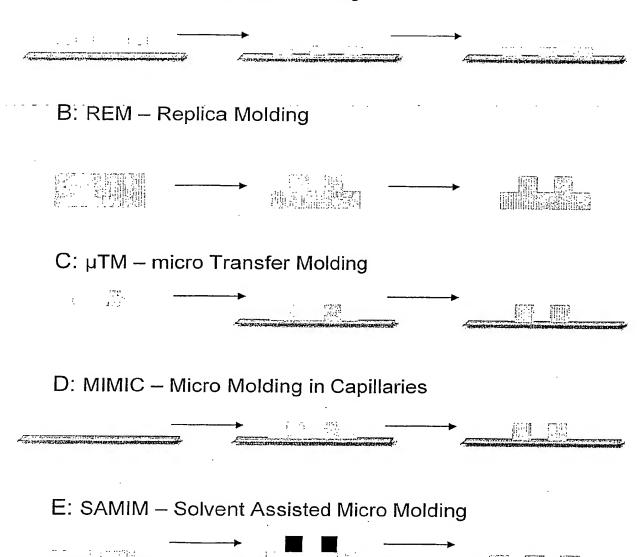


Fig. 2

Fig. 3

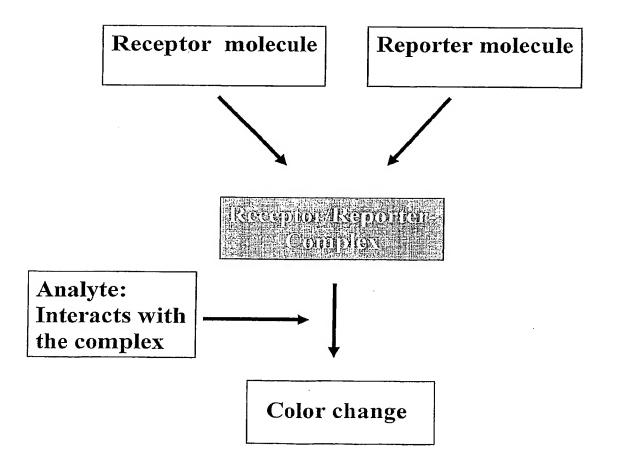
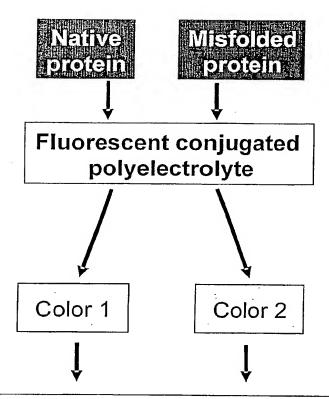


Fig. 4

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These solutions containing polyelectrolyte/protein complexes is then deposited on a patterned chip

Fig. 5



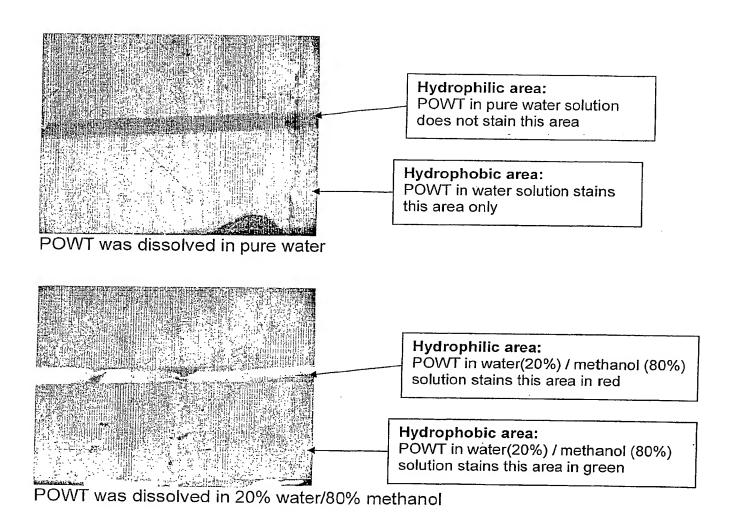
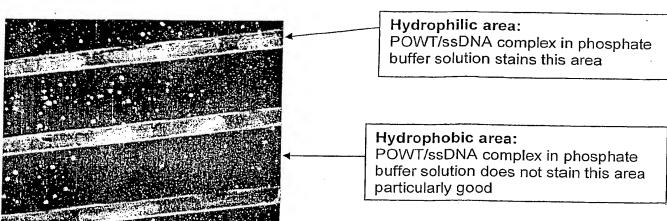
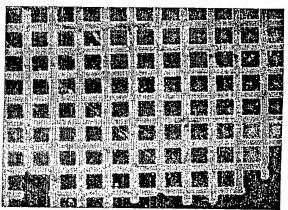


Fig. 6

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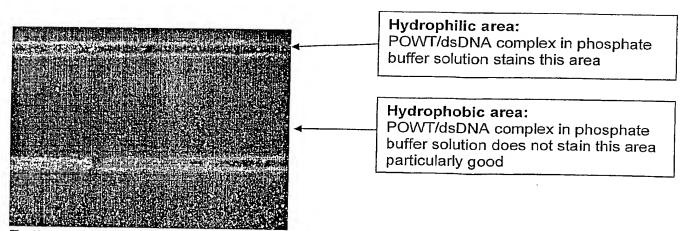
Pattern obtained from POWT/ssDNA-complex dissolved in phosphate buffer



Same as above but with a different hydrophobic pattern on the hydrophilic substrate.

The squares are hydrophobic and the surrounding area is hydrophilic.

Pattern obtained from POWT/ssDNA-complex dissolved in phosphate buffer.



Pattern obtained from POWT/dsDNA-complex dissolved in phosphate buffer.

Fig. 7

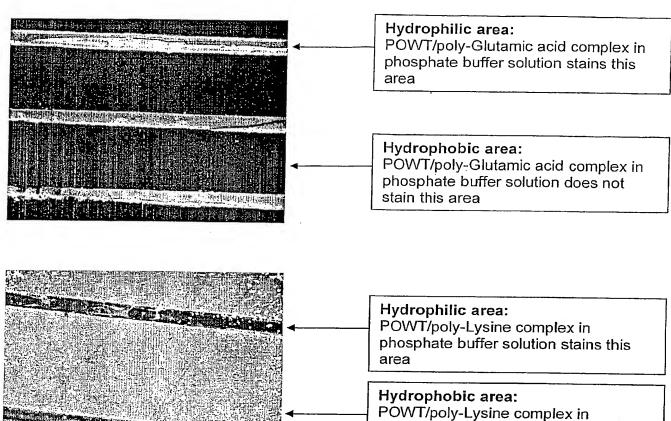
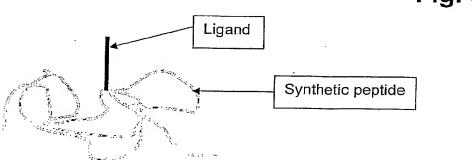


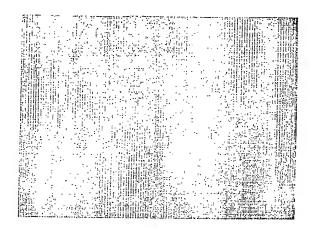
Fig. 8

stain this area

phosphate buffer solution does not



These two examples of synthetic peptides can be synthesized with ligands that can bind to a biomolecule of choice.



Route B:

POWT in pure water was coated on a clean substrate and then modified with PDMS stamp with a relief structure.

The modified areas that the patterned stamp creates cannot be seen before incubation with a molecule that binds to either area.

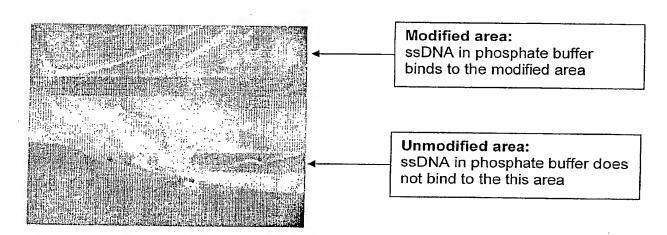


Fig. 9

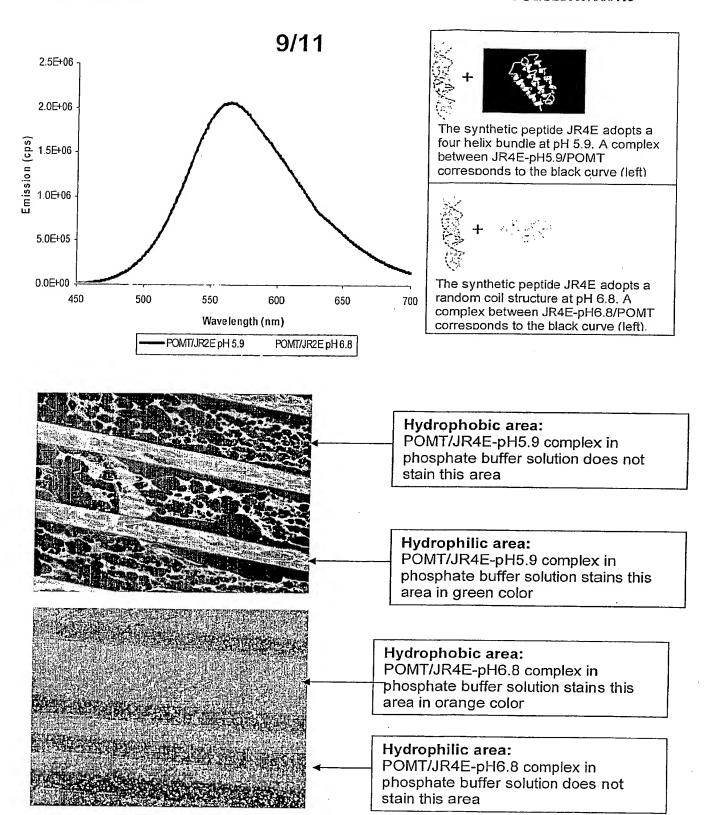
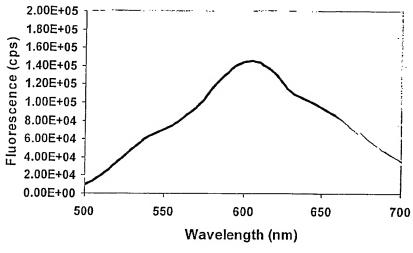
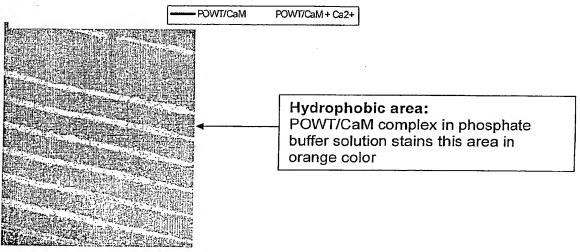


Fig. 10





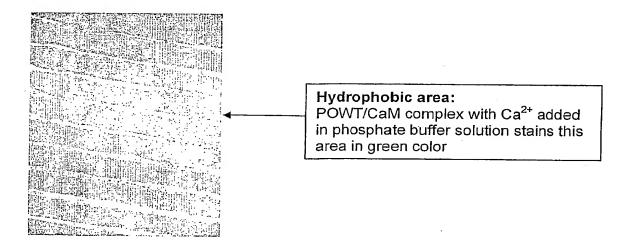


Fig. 11

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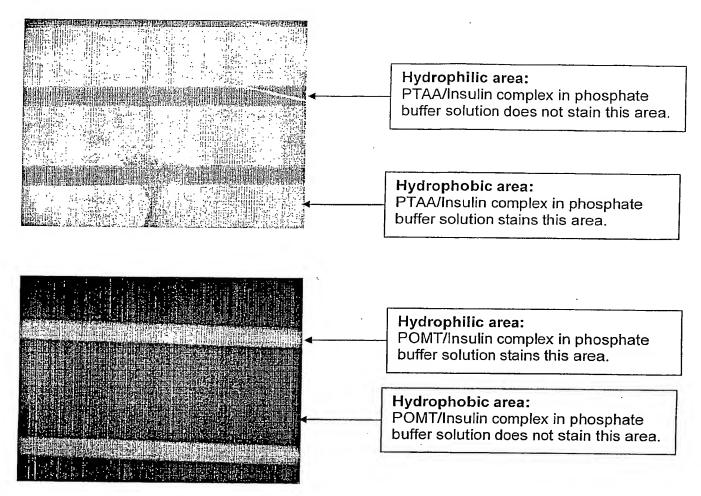


Fig. 12